

Memo

To: Wesley Lake Commission
From: Peter R. Avakian, PE
CC: Vito D. Gadaleta, Township Administrator
Leanne Hoffman, PE, Neptune Township
Date: October 21, 2014
Re: Project Status Report

Our office has completed inspection of the following projects, coordinated with the Township of Neptune Department of Engineering and Planning, updated on a monthly basis at our regular Commission meetings:

1. Bulkhead /Retaining Wall Restoration

Work has been completed, reconstructing the concrete retaining wall from Beach Avenue west to Founders Park in Ocean Grove. The base bid included reconstruction of approximately 400 feet of wall, and adjacent site restoration.

Construction included installation of steel sheet piling to stabilize soil behind the wall and in front of the wall to prevent water from entering the construction area. Work included installation of reinforcing steel, and pouring of a new concrete footing and retaining wall. Work has been completed in sections from east to west totaling approximately 400 feet.

2. Dredging Plan

Work has been completed for the dredging of Wesley Lake, from the easterly end of the Lake on the Ocean Grove side, to the westerly pedestrian bridge. The dredging area is approximately 2500 feet in length (½ mile) and 35 feet ± in width, removing approximately 5000 cubic yards of material.

The contractor has mechanically dredged some areas (with the excavator) and hydraulically dredged other areas. The material was stockpiled, to allow for dewatering, after which the dry material was removed to the contractor's disposal site.

Dredging from the most easterly foot bridge to the outlet structure was completed in May, while dredging between the two foot bridges was completed by the end of the following month.

3. Sediment in the Westerly End

Our office was advised of a concern or 'complaint' received by the Township, regarding the amount of sediment visible in the westerly end of the Lake. It should be noted that this area was dredged in 2010, and is only visible at this time due to the dropping of the water elevation to complete work in the east end.

The permitting received to complete the current work was allowed due to relief from Superstorm Sandy. The western most portion of the lake received a permit for the prior project, which is still active until April of 2015.

The 2010 project was completed at no cost to the Township or City, with engineering design and permitting paid by the Township of Neptune and sediment sampling and testing paid by the Friends of Wesley Lake.

Additional dredging in this area was recently completed under the main Wesley Lake dredging project, and a volume of approximately 500 cubic yards was removed from the westerly end of the lake.

ORIGINAL SIGNED BY:

Peter R. Avakian, PE
Commission Engineer